IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Serial No.:

Filed:

For:

Commissioner of Patents and Trademarks Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST AND REVOCATION OF PRIOR POWERS

Sir:

As owner of the entire interest in the above-identified patent application, as evidenced by the attached Statement Under 37 C.F.R. § 3.73(b), all powers of attorney previously given are hereby revoked and the following attorneys and agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Patrea L. Pabst	Registration No. 31,284
Zhaoyang Li	Registration No. 46,872
Rivka D. Monheit	Registration No. 48,731
Jerome R. Smith	Registration No. 35,684

OB 1 59 DE 77832,00155 U.S.S.N. 09/714,469
Filed: Nevember 16, 2000
Power of America by Assigned of Interest and Revocation of Prior Powers

Please send all correspondence relating to the above-identified patent application to:

Patrea L. Pabst HOLLAND & KNIGHT LLP Suite 2000, One Atlantic Center 1201 West Peachtree Street, N.E. Atlanta, Georgia 30309-3400

(404) \$17-8473 (Telephone) (404) \$17-8588 (F*x)

The undersigned signatory (whose title is supplied below) is empowered to act on behalf of the assignee identified below, and has reviewed all the documents in the chain of title of the above-identified patent application and, to the best of the undersigned's knowledge and belief, title is in the assignee.

Metabolix, Inc.

By: Oh P. Kom

Printed Name: OLIVER P. PEOPLES

Title: VP R&D

Date: APRIL 70 2002

ATL1 #522209 v1

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PTOISAGE (18-00)
Approved for use through 10/31/2022, OMB 0861-0031
U.S. Polem and Tindemark Citics: U.S. DEPARTMENT OF COMMERCE
U.S. Polem and Tindemark Citics: U.S. DEPARTMENT OF COMMERCE
Under the Poperwork Reduction Act of 1985, he persons are required to expression of propagation united a repress of valid CIMS control number.

STATEMENT UNDER 37 GFR 3.73(b)				
Applicant/Patent Owner. Jawed Asrar and Jean F	¿ Ріеде			
Application No Palant No : 09/714,469	Fledissue Date: November 16, 2000			
Polymer blends containing polyhydroxyallamosies and comp	besiges with 800g Listerston of Gouldands			
Marchalia Inc. a Corbi	oration			
(Namo al Assignee) (Type of	Apalgnas, s.g., carporsson, parmership, university, government, parmy, etc.)			
	a a special contraction of the special contracti			
states that it is:	SA SA SO SE			
1. X the assignee of the entire right, title, and interes	to the top			
 an assignce of less than the entire right, title ar The extent (by, percentage) of its ownership int 	erest is			
In the patent application/patent identified above by vir	''.			
A : J An essignment from the Inventor(s) of the poter was recorded in the United States Patent and 1 which a copy thereof is attached.	nt application/patent identified above. The assignment Trademark Office at Real, Frame, or for			
OR				
B. [x] A chain of title from the inventor(s), of the pater assignee as shown below: 1. From: Jawed Astar and Jean R. Pietre	To: Monsento Company			
The document was recorded in the United Reg. 9778 Frame 0197	d States Patent and Trademark Office at, or for which a copy thereof is attached.			
2. From: Monsanto Company	To: Metabolix Inc. 1 States Patent and Trademark Office at			
The document was recorded in the United Real, Frame	i States Patent and Trademark Office at properties of the properties of the state o			
	Ţo:			
The document was recorded in the United	States Patent and Trademark Office at			
[] Additional documents in the chain of title:				
[X] Copies of assignments or other documents in the cindTE: A separate copy (i.e., the original essignment by submitted to Assignment Dylaion in accordance of the USPTO. See MPEP	ent document or a true copy of the original cocument) idence with 37 CFR Parl 3, if the assignment is to be			
The undersigned, (whose title is supplied below) is auth	orized to act on behalf of the assignes.			
4/30/02	Dr. Oliver P. Peoples			
Date	Completed or printed name			
	Signature			
	Cofounder and VP R&D			
	Tille			

Burlen Hour Glaterment: This form is estimated to take 0.2 hours to complete. These will vary depending upon the impale of the Index Guest Any commons on the amount of Unite you are required to complete that form should be sort to the Order Information Officer, U.S. Patent and Trademork Office, Washington, DC 2021. TO NOT SEND FORMS OF COMPLETED FORMS TO THIS ADDRESS. SEND TO Addition Commissions for Palente. Washington DC 2021.

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT ("Assignment") is made and entered into as of this 14th day of May, 2001, by and between Metabolix, Inc., a Delaware corporation, having its principal place of business located at 303 Third Street, Cambridge, Massachusetts 02142 (hereinafter "Assignee"), and Monsanto Company, a Delaware corporation, having its principal place of business located at 800 North Lindbergh Boulevard, St. Louis, Missouri 63167 (hereinafter "Assignor").

WHEREAS, except as otherwise indicated, Assignor owns or has owned the patents and patent applications identified on <u>Schedule A</u> and <u>Schedule B</u>, attached hereto, some of which have lapsed or have been abandoned;

WHEREAS, Assignee acknowledges that some of the patents and patent applications listed on <u>Schedule A</u> and <u>Schedule B</u> have been abandoned or have lapsed; and

WHEREAS, Assignor and Assignee are parties to the Transaction Documents (as defined in a certain Asset Purchase Agreement of even date herewith entered into by the parties hereto) which provides for, among other things, the assignment of the identified patents and patent applications from Assignor to Assignee.

NOW, THEREFORE, in consideration of the mutual covenants and obligations contained herein and in the Transaction Documents, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Assignor does hereby sell, assign, transfer, and set over unto said Assignee all of its right, title, and interest in and to the inventions described and/or claimed in, and the patents and patent applications relating to polyhydroxyalkanoates ("PHAs")identified on Schedule A and Schedule B, and any reissues or reexaminations thereof, and any continuing, continuation, continuation-in-part, divisional, foreign counterpart, and/or Patent Cooperation Treaty applications which may be hereinafter filed, and in and to any Letters Patent which may be granted and issued, in and for the United States of America and all foreign countries, including all treaty and convention rights, and the right to sue for present, past, and future infringement, enforce any rights and file any causes of action related thereto, either in law or equity, and to all income, royalties, fees, damages, and payments now or hereafter due or payable with respect thereto (hereinafter "Patents"). The identified Patents shall be held and enjoyed by said Assignee, its successors and assigns, to the fullest extent permissible under any applicable laws and ends of the terms for which all Letters Patents therefor may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this Assignment had not been made.

Assignee is hereby authorized to make application for and to receive Letters
Patent for said inventions in any countries at its election. And by this covenant the Assignor agrees to execute or procure further necessary assurance of title to said inventions, patents and

range of service agreement of the same of

SL01DOCS/1262418.07

perfect the title to said inventions, patents and patent applications in Assignee, its successors, assigns or other legal representatives; and upon the reasonable request of said Assignee, will execute any additional applications for patents for said inventions, or any part or parts thereof, and for the reissue of any Letters Patent to be granted therefor; and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of said Assignee, its successors, assigns, or other legal representatives.

Notwithstanding the foregoing, Assignee shall prepare, execute and deliver any and all documents related to the recordation or legalization of any rights granted herein. And, as between the parties hereto, Assignee shall be solely obligated and responsible for any and all expenses associated with such recordation or legalization, including without limitation any preparation, execution and delivery expenses, and shall further be obligated and responsible for any expenses incurred in Assignee's efforts to obtain, establish or perfect ownership of right, title or interest in or to the Patents. Assignee agrees that it shall not record this Assignment in or with the United States Patent and Trademark Office or in or with any patent office foreign to the country of the United States of America. The assignment on Schedule C attached hereto serves as an exemplary form of instrument for recording purposes.

MONSANTO COMPANY 800 North Lindbergh Boulevard St. Louis, Missouri 63167

Attest:	By: Dan Ludge
Milich J. M.	Name: DANA L. WESLEY Title: DIRECTOR M & A
STATE OF MISSOURI) ss.: COUNTY OF ST. LOUIS)	, ,
is the <u>Director</u> , M&A foregoing instrument is the corporal	May, 2001, before me personally came ne personally known, who being duly sworn did say that he of Monsanto Company, that the seal affixed to the te seal of said corporation, and that said instrument was corporation by authority of its Board of Directors; and said acknowledged said instrument to be the free act and
,	Notary Public
My commission expires	
KATHRYN A. SHARP Notary Public-Notary Seal STATE OF MISSOURI St. Louis County My Commission Expline Pedember 1	1, 2004

	METABOLIX, INC. 303 Third Street Cambridge, Massachusetts 02100
Attest:	By: James & Back
	Name: JAMES J. BARBER
	Title: PRESIDENT
STATE OF MASSACHUSETTS) COUNTY OF MIDDLESEX)	SS.:
the Presided at CEO coinstrument is the corporate seal of said corporation by	May, 2001, before me personally came personally known, who being duly sworn did say that he is of Metabolix, Inc., that the seal affixed to the foregoing corporation, and that said instrument was signed and sealed authority of its Board of Directors; and said acknowledged said instrument to be the free act and
MY COMMISSIC JANUARY 2	
My commission evoires	

Signature page to the Patent Assignment dated May 14, 2001

SCHEDULE A to the Patent Assignment

Patents and Patent Applications

1. Title: METHODS OF PHA EXTRACTION AND RECOVERY

USING NON-HALOGENATED SOLVENTS

Inventor(s):

Kurdikar, et al.

U.S. Patent No.:

6,043,063

Issued:

March 28, 2000

Serial No.:

09/060,121

Filed:

April 15, 1997

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	4/14/98	US9807484	10/22/98	WO9846782	Filed
EP	4/14/98	US9807484	2/2/00	09757588	Pending

2. Title: DNA SEQUENCE USEFUL FOR THE PRODUCTION OF

POLYHYDROXYALKANOATES

Inventor(s):

Kruger, et al.

U.S. Patent No.:

5,750,848 May 12, 1998

Issued:

08/700,576

Serial No.: Filed:

August 13, 1996

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
US (reissue appln.) WO	5/12/00 8/13/97	09/570842 US9714388	2/19/98	WO9806854	Pending Filed
EP JP	8/13/97 8/13/9 7	979372737 51005798	12/19/00	KOHYO2000516	Pending Pending

3. Title:

HIGH TEMPERATURE PHA EXTRACTION USING

PHA-POOR SOLVENTS

Inventor(s):

Kurdikar, et al.

U.S. Patent No.:

6,087,471

Issued:

July 11, 2000

Serial No.:

09/060,120

Filed:

April 14, 1998

Country Code

App. Date

App. No.

Late A secretary

Pub. Date

Pub. No.

Status

9 1.1

4. Title: RHODOSPIRILLUM RUBRUM

POLY-B-HYDROXYALKANOATE SYNTHASE

Inventor(s):

Clemente, et al.

U.S. Patent No.:

5,849,894

Issued:

December 15, 1998

Serial No.:

08/756,317

Filed:

November 25, 1996

Priority:

November 29, 1995

5. Title: MACROMOLECULAR DEGRADATION OF NUCLEIC

ACIDS

Inventor(s):

Greer

U.S. Patent No.:

5,627,276

Issued:

May 6, 1997 08/424,458

Serial No.: Filed:

October 27, 1993

Country Code	App. Date	<u>App. No.</u>	Pub. Date	Pub. No.	<u>Status</u>
wo	10/27/93	GB9302208	5/11/1994	WO9410289	Filed
EP	10/27/93	939236246	9/6/95	0669970	Filed
AU	10/27/93	6280194	1/31/97	676026	Lapsed
BE	10/27/93	939236246	9/6/95	0669970	Issued
BR	10/27/93	PI93073216			Aband.
CA	10/27/93	2146455	5/11/94		Pending
DE	10/27/93	939236246	9/6/95	0669970	Issued
FI	10/27/93	951997			Pending
FR	10/27/93	939236246	9/6/95	0669970	Issued
GB	10/27/93	92225614			Aband.
GB	10/27/93	939236246	9/6/95	0669970	Issued
IT	10/27/93	939236246	9/6/95	0669970	Issued
JP	10/27/93	51081994	3/19/96	OP50241596	Pending
NO	10/27/93	951595			Aband.

6. Title: POLYESTER COMPOSITION AND OLIGOMERS USEFUL

AS COMPONENTS THEREOF-POLYMER

Inventor(s):

Hammond, et al.

U.S. Patent No.:

5,550,173

Issued:

August 27, 1996

Serial No.:

08/432,116

Filed:

November 4, 1993

Country Code	<u> App. I</u>	Date A	App. No.	Pub. Date	Pub. No.	<u>Status</u>
wo	11/4/9	3 (GB9302279	5/26/94	WO9411445	Filed
EP	11/4/9	3 9	39247045	8/30/95	0668893	Aband. AU
	11/4/93	6396294	12/18/	97 68449	9 Lapsed	i
CA	11/4/9	3 2	147982	5/26/94		Pending
FI	11/4/9	3 9	52163			Pending
GB	11/6/9	2 9	2233501			Aband.
JP	11/4/9	3 5	1182794	4/23/96	OP50372396	Pending
NO	11/4/9	3 1	9951749			Aband.

7. Title: PROCESS FOR PREPARING FILMS AND COATINGS

Inventor(s): U.S. Patent No.: Waddington 6,111,006

Issued:

August 29, 2000

Serial No.: Filed: 08/663,088 July 7, 1997

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	12/19/94	GB9402761	6/29/95	WQ9517454	Filed
EP	12/19/94	959038514	12/11/96	0746585	Filed
BE	12/19/94	959038514	12/11/96	0746585	Issued
CA	12/19/94	2179522	6/29/95		Pending
DE	12/19/94	959038514	12/11/96	0746585	Issued
FR	12/19/94	959038514	12/11/96	0746585	Issued
GB	12/20/93	93259521			Aband.
GB	12/19/94	959038514	12/11/96	0746585	Issued
IT	12/19/94	959038514	12/11/96	0746585	Issued
JP	12/19/94	51725695	7/29/97	OP50744197	Pending

8. Title: 3-HYDROXYBUTYRATE POLYMERS

Inventor(s):

Collins, et al.

U.S. Patent No.:

4,477,654

Issued:

October 16, 1984

Serial No.:

June 29, 1982

Filed:

November 9, 1981

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
EP		813051869	5/26/82	0052459	Filed
BE	10/30/81	813051869	5/26/82	0052459	Issued
СH	10/30/81	813051869	5/26/82	0052459	Lapsed
DE	10/30/81	813051869	5/26/82	0052459	Issued
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IT	10/30/81	813051869	5/26/82	0052459	Aband.
JР	11/18/81	18515381	3/2/94	1560494	Issued
JP	11/18/81	27883890	11/10/92	7034292	Issued
JР	11/18/81	33224391	1/26/93	OP1538393	Issued
NL	10/30/81	813051869	05/26/82	0052459	Lapsed
RU	11/17/81	335714505			Lapsed
SE	10/30/81	813051869	05/26/82	0052459	Lapsed
UA	10/28/93				Lapsed

9. Title:

3-HYDROXYBUTYRATE POLYMER COMPOSITION

Inventor(s): He U.S. Patent No.: 5,0

Herring, et al. 5,061,743

Issued: October 29, 1991 Serial No.: 07/530,560 Filed: May 30, 1990

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
EP		903055028	12/5/90	0400855	Filed
AT	5/21/90	903055028	12/5/90	0400855	Lapsed
BE	5/21/90	903055028	12/5/90	0400855	Issued
BR	5/30/90	PI9002561			Aband.
CA	5/30/90	2017885	11/30/90		Issued
CH	5/21/90	903055028	12/5/90	0400855	Lapsed
DE	5/21/90	903055028	12/5/90	0400855	Issued
DK	5/21/90	903055028	12/5/90	0400855	Lapsed
ES	5/21/90	903055028	12/5/90	04008 55	Lapsed
FR	5/21/90	903055028	12/5/90	0400855	Issued
GB	5/30/89	89123889			Aband.
GB	5/21/ 90	903055028	12/5/90	0400855	Issued
GR	5/21/90	903055028	12/5/90	0400855	Lapsed
IN	5/25/90	507DEL90		177061	Lapsed
m	5/21/90	903055028	12/5/90	0400855	Issued
1 Ρ	5/30/90	14124790	2/19/99	2888924	Issued
KŖ	5/30/90	781490			Lapsed
LU	5/21/90	903055028	12/5/90	0400855	Lapsed
MW	5/30/89	4690			Lapsed
NL	5/21/90	903055028	12/5/90	0400855	Lapsed
SE	5/21/90	903055028	12/5/90	040855	Lapsed
SZ	6/3/91	RP281991			Lapsed
TW	5/31/90	79104435	4/1/91		Lapsed
ZA	5/28/90	904073			Lapsed
ZW	5/28/90	8390			Lapsed

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10. Title:

COPOLYMER PRODUCTION

Inventor(s): U.S. Patent No.:

Byrom 5,364,778

Issued:

November 15, 1994

Serial No.:

08/103,155

Filed:

December 10, 1990

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
ЕP		903131332	6/12/91	0431833	Filed
AU	12/7/90	6782790	6/3/93	637657	Issued
BE	12/4//90	903131332	6/12/91	0431833	Issued
BR	12/7/90	PI90062310	8/18/98		Issued
CA	12/10/90	2031888	6/9/91		Issued
DE	12/4/90	903131332	6/12/91	0431833	Issued
FR	12/4/90	903131332	6/12/91	0431833	Issued
GB	12/8/89	89277941			Aband.
GB	12/4/90	903131332	6/12/91	0431833	Issued
IN	12/6/90	1235DEL90		177461	Aband.
JP	12/7/90	40094790	2/25/00	3036851	Issued
KR	12/8/90	2017590	7/9/99	223341	Issued
NZ	12/7/90	236394	8/23/93	236394	Issued
TW	12/12/90	79110458	1/12/93	NI58448	Issue d
ZA	12/6/90	909816	11/27/91	909816	Issued

11. Title:

BIODEGRADABLE POLYESTER PLASTICIZER

Inventor(s):

Montador, et al.

U.S. Patent No.:

5,516,825

Issued:

May 14, 1996

Serial No.:

08/381,903

Filed:

August 10, 1993

Country Code	App. Date	<u>Арр. No.</u>	Pub. Date	Pub. No.	<u>Status</u>
wo	8/10/93	GB9301689	3/3/94	WO9404607	Filed
EP		949080568	5/31/95	0655077	Filed
AT	8/10/93	949080568	5/31/95	0655077	Issued
ΑU	8/10/93	4723893	3/6/97	676191	Issued
BE	8/10/93	94908568	5/31/95	0655077	Issued
CA	8/10/93	2142333	3/3/94		Pending
CH	8/10/93	94908568	5/31/95	0655077	Issued
DE	8/10/93	94908568	5/31/95	0655077	Issued
DK	8/10/93	94908568	5/31/95	0655077	Issued
ES	8/10/93	94908568	5/31/95	0655077	Issued
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1-41857

GB	8/13/92	92171313			Aband.
GB	8/10/93	94908568	5/31/95	0655077	Issued
IT	8/10/93	94908568	5/31/95	0655077	Issued
JP	8/10/93	50599494	3/5/96	OP50208596	Pending
NL	8/10/93	94908568	5/31/95	0655077	Issued
NO	8/10/93	19950522	1/3/00	306864	Issued
SE	8/10/93	94908568	5/31/95	065507	Issued

12. Title: POLYMER COMPOSITION COMPRISING A

CRYSTALLIZABLE POLYMER STABILIZED IN AN

AMORPHOUS OR INCOMPLETE STATE

Inventor(s): U.S. Patent No. Clauss, et al 5,599,891

Issued:

February 4, 1997 08/407,030

Serial No.: Filed:

September 28, 1993

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	9/28/93	GB9302014	4/14/94	WO9407940	Filed
EP	9/28/93	939210100	7/12/95	0662097	Allowed
AU	9/28/93	4829693	2/13/97	675664	Lapsed
BR	9/28/93	PI93071302			Aband.
CA	9/28/93	2144449	4/14/94		Pending
FI	9/28/93	951452			Pending
GB	9/28/92	92204478			Pending
GB	9/28/92	92204015			Pending
GB	9/28/92	93046514			Pending
JР	9/28/93	50882694	3/5/96	OP50208896	Pending
KR	9/28/93	70059511999			Aband.
NO	9/28/93	19951158			Aband.

13. Title: PROCESS FOR SEPARATION OF SOLID MATERIALS FROM MICROORGANISMS

Inventor(s):

Cumming, et al

U.S. Patent No.:

5,622,847

Issued:

April 22, 1997

Serial No.:

08/433,501

Filed:

November 12, 1993

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO EP	11/12/93	GB9302329 939247524	5/26/94 9/13/95	WO9411491 0670891	Filed Filed
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BE	11/12/93	939247524	9/13/95	0670891	Issued
BR	11/12/93	PI93074280			Aband.
CA	11/12/93	2147985	5/26/94	0670891	Aband.
DE	11/12/93	939247524	9/13/95	0670891	Issued
DK	11/12/93	939247524	9/13/95	0670891	Lapsed
ES	11/12/93	939247524	9/13/95	0670891	Lapsed
FI	11/12/93	952292			Pending
FR -	11/12/93	939247524	9/13/95	0670891	Issued
GB	11/12/92	92237098			Aband.
GB	11/12/92	939247524	9/13/95	0670891	Issued
Π	11/12/92	939247524	9/13/95	0670891	Issued
JP	11/12/92	51186094	4/9/96	OP50313196	Pending
KR	11/12/92	7018941995			Aband.
LU	11/12/92	939247524	9/13/95	0670891	Lapsed
NL	11/12/92	939247524	9/13/95	0670891	Lapsed
NO	11/12/92	951867			Aband.
PT	11/12/92	939247524	9/13/95	0670891	Lapsed

Title: POLYHYDROXYALKANOATES AND FILM FORMATION

THEREFROM

Inventor(s): Waddington U.S. Patent No.: 5,534,616

Issued: July 19, 1996 Serial No.: 08/491,929 Filed: January 12, 1994

14a. Title: POLYHYDROXYALKANOATES AND FILM FORMATION

Inventor(s): THEREFROM Waddington

U.S. Patent No.: 5,578,382

Issued: November 26, 1996

Serial No.: 08/595,213
Filed: February 1, 1996

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	1/12/94	GB9400056	7/21/94	WO9416000	Filed
EP	1/12/94	949042410	2/7/96	0695321	Filed
AU	1/12/94	5837694	9/11/97	681862	Lapsed
BE	1/12/94	949042410	2/7/96	0695321	Орр.
CA	1/12/94	2153807			Pending
DE	1/12/94	949042410	2/7/96	0695321	Орр.
FI	1/12/94	953411			Pending
FR	1/12/94	949042410	2/7/96	0695321	Opp.

3904 441

14.



П	1/12/94	949042410	2/7/96	0695321	Opp.
JP	1/12/94	51583394	6/11/96	OP50541596	Pending

15. Title: ADHESION PROCESS USING PHA

Inventor(s): Kemmish U.S. Patent No.: 5,711,842

Issued: January 27, 1998 Serial No.: 08/591,558 Filed: July 11, 1994

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
wo	7/11/94	GB9401496	1/26/95	WO9502649	Filed
EP	7/11/94	949205397	5/1/96	0708804	Filed
ΑU	7/11/94	7129294	1/15/98	685135	Lapsed
BE	7/11/94	949205397	5/1/96	0708804	Issued
CA	7/11/94	2166613	1/26/95	OPNONE	Pending
DK	7/11/94	949205397	5/1/96	0708804	Issued
ϔΙ	7/11/94	960158			Pending
GB	7/11/94	949205397	5/1/ 9 6	0708804	Issued
ĬŢ	7/11/94	949205397	5/1/96	0708804	Issued
$\mathbf{J}\!\mathrm{P}$	7/11/94	50439695	1/7/97	OP50015797	Pending
NO	7/11/94	19960153			Aband.

16. Title: POLYESTER COMPOSITION

Inventor(s): Hammond, et al

U.S. Patent No.: 5,753,782
Issued: May 19, 1998
Serial No.: 08/553,649
Filed: June 1, 1994

Country Code App. Date App. No. Pub. Date Pub. No. Status WO 6/1/94 GB9401184 12/8/94 WO9428061 Filed EP 6/1/94 949170773 3/20/96 0701586 Und. App. CA 6/1/94 12/8/94 2163444 Pending GB 6/2/93 93113991 Aband. JP 6/1/94 50042195 2/10/97 OP50145097 Pending

17. Title: SEPARATION PROCESS

Inventor(s): Holmes, et al
U.S. Patent No.: 4,910,145
Issued: March 20, 1990
Serial No.: 07/374,567

171.4 Marcher 5, 1081

App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
	843075425	6/19/85	0145233	Filed
11/1/84	843075425	6/19/85	0145233	Issued
12/20/85	498397			Issued
11/1/84	843075425	6/19/85	0145233	Issued
11/1/84	843075425	6/19/85	0145233	Issued
11/1/84	843075425	6/19/85	0145233	Issued
11/1/84	843075425	6/19/85	0145233	Issued
11/21/84	24697584	10/1/92	6163892	Issued
11/1/84	843075425	6/19/85	0145233	Issued
11/1/84	843075425	6/19/85	0145233	Issued
	11/1/84 12/20/85 11/1/84 11/1/84 11/1/84 11/1/84 11/21/84 11/1/84	843075425 11/1/84 843075425 12/20/85 498397 11/1/84 843075425 11/1/84 843075425 11/1/84 843075425 11/1/84 843075425 11/1/84 843075425 11/21/84 24697584 11/1/84 843075425	843075425 6/19/85 11/1/84 843075425 6/19/85 12/20/85 498397 11/1/84 843075425 6/19/85 11/1/84 843075425 6/19/85 11/1/84 843075425 6/19/85 11/1/84 843075425 6/19/85 11/21/84 24697584 10/1/92 11/1/84 843075425 6/19/85	843075425 6/19/85 0145233 11/1/84 843075425 6/19/85 0145233 12/20/85 498397 11/1/84 843075425 6/19/85 0145233 11/1/84 843075425 6/19/85 0145233 11/1/84 843075425 6/19/85 0145233 11/1/84 843075425 6/19/85 0145233 11/1/84 843075425 6/19/85 0145233 11/21/84 24697584 10/1/92 6163892 11/1/84 843075425 6/19/85 0145233

18. Title:

POLYMER PRODUCTION/POLYESTERS HAVING C8 AND/OR C10 MONOMER REPEAT UNITS

Inventor(s):

Anderson, et al.

U.S. Patent No.:

5,296,362

Issued:

March 22, 1994 07/507,842

Serial No.: Filed:

February 17, 1998

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
EP		903031193	10/17/90	0392687	Filed
ΑŲ	1/31/99	5240590	2/18/93	634218	Lapsed
BR	1/31/99	PI90017323			Aband.
CA	8/2/96	2014238			Aband.
CH	1/31/99	903031193	10/17/90	0392687	Lapsed
ĎЕ	2/17/98	903031193	10/17/90	0392687	Issued
FR	2/17/98	903031193	10/17/90	0392687	Issued
GB	2/17/98	903031193	10/17/90	0392687	Issued
IN	12/19/94	319DEL90			Aband.
JP	1/14/00	9747490	12/11/90	OP29959090	Aband.
KR	2/27/95	49461990			Aband.
MW	3/4/93	MW2390			Aband.
NL	1/31/99	903031193	10/17/90	0392687	Lapsed
NZ	1/31/99	233296	10/11/92	233296	Lapsed
SZ	3/4/93	RP461991			Lapsed
TW	1/31/99	79102871	3/21/91		Lapsed
ZA	1/31/99	902399			Lapsed
ZW	11/23/93	4890			Lapsed



19. Title: HV/HB COPOLYMER PRODUCTION

Inventor(s): Cox, et al.
U.S. Patent No.: 6,080,562
Issued: June 27, 2000
Serial No.: 07/949,524
Filed: May 24, 1991

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
£Р				0535012	Filed
AT	5/24/91	919102236	4/7/93	0535012	Lapsed
ΑÙ	5/24/91	7970891	9/15/94	65 294 2	Lapsed
CA	5/24/91	2083695	11/26/91		Pending
D E	5/24/91	919102236	4/7/93	0535012	Issued
GB	5725/90	919102236			Aband.
G B	5 /24/91	90117771	<i>4/7/9</i> 3	0535012	Issucd
Π	5/24/91	919102236	4/7/93	0535012	Issued
JР	5/24/91	50952491			Pending
KR	5/24/91	70296892			Aband.

20. Title: PROCESS FOR THE RECOVERY OF POLYHYDROXYALKANOIC ACID

Inventor(s): Liddell
U.S. Patent No.: 5,894,062
Issued: April 13, 1999
Serial No.: 08/793,832
Filed: August 15, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	8/15/95	GB9501926	2/29/96	WO9606179	Filed
EP	8/15/95	959278979	6/4/97	0776372	Filed
BE	8/15/95	959278979	6/4/97	0776372	Issued
CA	8/15/95	2197783			Pending
DE	8/15/95	959278979	6/4/97	0776372	Issued
FI	8/15/95	970680			Pending
FR	8/15/95	959278979	6/4/97	0776372	Issued
GB	8/18/94	94166907			Aband.
GB	8/15/95	959278979	6/4/97	0776372	Issued
IT	8/15/95	959278979	6/4/97	0776372	Issued
JP	8/15/95	50785096	5/6/98	KOHYO50446098	Pending
KR	8/15/95				Aband.
MX	8/15/95				Aband.
NO	8/15/95	19970 7 39			Aband.



21.

Title:

PRODUCTION OF POLYMER COMPOSITION

Inventor(s): U.S. Patent No.: George, et al. 5,891,936

Issued: Serial No.:

April 6, 1999 08/894,346

Filed:

February 12, 1996

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	2/12/96	G B960030 5	8/22/96	WO9625452	Filed
EP	2/12/96	969023456	12/3/97	0809669	Filed
BE	2/12/96	969023456		0809669	Issued
DE	2/12/96	969023456	12/3/97	0809669	Issued
FI	2/12/96	973364			Pending
FR	2/12/96	969023456	12/3/97	0809669	Issued
GB	2/16/95	95029807			
GB	12/21/95	95262812			
GB	2/12/96	969023456	12/3/97	0809669	Issued
IT	2/12/96	969023456	12/3/97	0809669	Issued
JP	2/12/96	52474596	1/12/99	KOHYO50047699	Pending

22. Title: LATEX OF POLYHYDROXYALKANOATE

Inventor(s):

George, et al. 5,977,250

U.S. Patent No.:

Issued: Serial No.: November 2, 1999

Filed:

08/875,976 February 9, 1996

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	2/9/96	GB9600284	8/15/96	WO9624682	Filed
EP	2/9/96	969019264	11/26/97	0808373	Filed
BE	2/9/96	969019264	11/26/97	0808373	Opp.
DE	2/9/96	969019264	11/26/97	0808373	Opp.
FI	2/9/96	9732 9 7			Pending
FR	2/9/96	969019264	11/26/97	0808373	Opp.
GB	2/9/95	95025219			Aband.
GB	2/9/96	969019264	11/26/97	0808373	Opp.
IT	2/9/96	969019264	11/26/97	0808373	Орр.
JР	2/9/96	52408896	1/19/99	KOHYO50061399	

23. Title: A METHOD FOR PREPARING A COMPOSTIBLE

LAMINATE WITH POLYCAPROLACTONE AND A POLY

3-HYDROXYALKANOIC ACID

Inventor(s): Serial No.:

Karbuketo, et al.

Filed:

08/930,212 February 2, 1998

Under Appeal

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO EP CA GB JP	4/4/96 4/4/96 4/4/96 4/7/95 4/4/96	GB9600819 969082908 2217640 95072633 53009596	10/10/96 1/21/98	WO9631347 0819058	Filed Pending Pending Aband. Pending

24. Title:

DISPERSIONS OF POLYHYDROXYALKANOATES IN

WATER

Inventor(s): Serial No.:

George 09/077,953

Filed:

June 19, 2000

Abandoned

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO EP CA GB JP MX	12/12/96 12/12/96 12/12/96 12/12/95 12/12/96 12/12/96	US9619886 969448075 2239980 95253902 52223197 984764	6/19/97	WO9721762 2000502375	Filed Pending Pending Aband. Pending Aband.

25. Title:

INCREASING THE PARTICLE SIZE OF POLYMERS

Inventor(s):

George, et al. 5,798,440

U.S. Patent No.: Issued:

August 25, 1998

Serial No.:

08/374,662

Filed:

July 13, 1993

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO EP AT	7/13/93 7/13/93	GB9301465 939160594 939160594	2/3/94 5/17/95 5/17/95	WO9402622 0652969 0652969	Filed Filed Lapsed
.4	+ Ca	1178118		* · · · · · · · · · · · · · · · · · · ·	stic.

7/13/93	PI93067569	12/8/98		Aband.
7 /1 3 /93	2137794	2/3/94		Aband.
7/13/93	939160594	5/17/95	0652969	Lapsed
7/13/93	939160594	5/17/95	0652969	Issued
7/13/93	939160594	5/17/95	0652969	Lapsed
7/13/93	939160594	5/17/95	0652969	Lapsed
7/13/93	950284			Pending
7/13/93	939160594	5/17/95	0652969	Issued
7/24/92	92157916			Aband.
7/13/93	939160594	5/17/95	0652969	Issued
7/13/93	939160594	5/17/95	0652969	Lapsed
7/13/9 3	939160594	5/17/95	0652969	Issued
7/13/93	50424794	10/12/95	OP50913195	Pending
7/13/93	70475494			Aband.
7/13/93	939160594	5/17/95	0652969	Lapsed
7/13/93	19950241			Aband.
7/13/93	254186	11/26/96	254186	Lapsed
7/13/93	95104935			Aband.
7/13/93	939160594	5/17/95	0652969	Lapsed
7/16/93	935179	6/29/94	935179	Lapsed
	7/13/93 7/13/93	7/13/93 2137794 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594 7/13/93 939160594	7/13/93 2137794 2/3/94 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/24/92 92157916 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95 7/13/93 939160594 5/17/95	7/13/93 2137794 2/3/94 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/24/92 92157916 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 70475494 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969 7/13/93 939160594 5/17/95 0652969

26. Title: MULTILAYER BIODEGRADABLE FILM

Inventor(s): Kemmish, et al.
Serial No.: 08/647,909
Filed: May 30, 1996

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
wo	11/29/94	GB9402609	6/8/95	WO9515260	Filed
EP	11/29/94	959021874	9/18/96	0731754	Filed
BE	11/29/94	959021874	9/18/96	0731754	Issued
CA	11/29/94	2177065			Pending
DE	11/29/94	959021874	9/18/96	0731754	Issued
FI	11/29/94	962251			Pending
FR	11/29/94	959021874	9/18/96	0731754	Issued
GB	11/30/93	93245124			Aband.
GB	11/29/94	959021874	9/18/96	0731754	Issued
IT	11/29/94	959021874	9/18/96	0731754	Issued
JP	11/29/94	51547295	6/24/97	OP50630397	Pending

27. Title: COPOLYESTERS AND PROCESS FOR THEIR

PRODUCTION

Inventor(s): Collins, et al.

Cou	intry Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
	EP	6/21/82	823032149	1/12/83	0069497	Filed
	AU	5/24/82	8410882	4/16/87	560653	Issued
	BE	6/21/82	823032149	1/12/83	0069497	Issued
	CA	7/5/83	431821	7/30/87	1223687	Issued
	CH	6/21/82	823032149	1/12/83	0069497	Issued
	DE	6/21/82	823032149	1/12/83	0069497	Issued
	FR	6/21/82	823032149	1/12/83	0069497	Issued
	GB	6/21/82	823032149	1/12/83	0069497	Issued
	IT	6/21/82	823032149	1/12/83	0069497	Issued
	JР	7/7/82	11831682	6/25/92	3876392	Issued
	JP	7/7/82	21877193	5/24/95	4762395	Issued
	NL	6/21/82	823032149	1/12/83	0069497	Issued
	NZ	6/23/82	201054	6/19/86	201054	Issued
	ΝZ	6/23/82	213039		213039	Issued
	SE	6/21/82	823032149	1/12/83	0069497	Issued
28.	Title:	MOLECUL	ROXYALKAN AR WEIGHT VIC PLANTS			LED IN
	Inventor(s):	Asrar, et al.				
	U.S. Patent No.:	6,091,002				
	Issued:	August 15, 20	000			
	Serial No.:	08/912,205				
	Filed:	August 15, 19	997			
	US Divisional	Filed: 11/15/9	99 Serial	No.: 09/44040	00 Status: Allo	wed
	US Divisional	Filed: 11/30/9		No.: Not know		s: Pending
29	Title [,]	МЕТНОВС	ፑለኮ ፕሬሮ চা	NEVNTHECI	S OF DOI VE	erene

29.	Title:	

METHODS FOR THE BIOSYNTHESIS OF POLYESTERS

Inventor(s): Serial No.:

Gottschalk, et al. 09/380,773

Filed:

September 3, 1999

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	3/3/97	US9703994	9/11/98	WO9839453	Filed
EP	3/3/97	979159415	10/13/99	0958367	Pending

30. Title:

PHA COMPOSITIONS AND METHODS FOR THEIR USE

IN THE PRODUCTION OF PHA FILMS

Inventor(s):

Asrar, et al.

Serial No.:

09/122,147

Filed:

July 24, 1998

CPA filed recently under Section 1.53(d)

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	7/24/9 8	US9815398	2/4/99	WO9905207	Filed
EP	7/24/9 8	989370895	5/3/00	0996670	Pending

31. Title:

MODIFIED POLYHYDROXYALKANOATES FOR

PRODUCTION OF COATINGS AND FILMS

Inventor(s):

Asrar, et al.

U.S. Patent Nos.:

6,096,810; 6,201,083

Issued:

August 1, 2000; March 13, 2001

Serial Nos.:

09/156,147; 09/609,878

Filed:

September 18, 1998; July 5, 2000

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	9/18/98	US9819461	3/25/99	WO9914268	Filed
EP	9/18/98	989471123	8/2/00	1023378	Allowed

32. Title:

PLASTICIZED POLYHYDROXYALKANOATE

COMPOSITIONS AND METHODS FOR THEIR USE IN THE PRODUCTION OF SHAPED POLYMERIC ARTICLES

Inventor(s):

Asrar, et al.

U.S. Patent No.:

6,127,512

Issued:

October 3, 2000

Serial No.:

09/179,271

Filed:

October 31, 1997

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	10/27/98	U\$9822753	5/14/99	WO9923146	Filed
EP	10/27/98	989562459	8/9/00	1025152	Pending

33. Title:

POLYMER BLENDS CONTAINING

POLYHYDROXYALKANOATES AND COMPOSITIONS

WITH GOOD RETENTION OF ELONGATION

Inventor(s):

Asrar, et al. 6,191,203

U.S. Patent No.:

Issued:

February 20, 2001

Serial No.:

09/714,469; 09/179,780 (Divisional: Pending)

Filed:

November 16, 2000; October 31, 1997

Country Code

App. Date

App. No.

Pub. Date

Pub. No. **Status**

WO

10/27/98

US9822723 5/14/99 WO9923161 Filed

EP

10/27/98

US9822723

Pending

34. Title: BIOSYNTHESIS OF MEDIUM CHAIN LENGTH

POLYHYDROXYALKANOATES

Inventor(s):

Poirier, et al. 09/582,534

Serial No.: Filed:

June 27, 2000

Country Code

App. No.

Pub. Date

Pub. No.

Status

WO EP

1/5/98

1/5/98

App. Date

US9800083 US9800083 7/15/99

WO9935278 Filed

Pending

35.

Title:

PHAE AND PHAC COMPONENTS OF POLY(HYDROXY

FATTY ACID) SYNTHASE FROM THIOCAPASA

Inventor(s):

Liebergesell, et al.

U.S. Patent No.:

6,011,144

Issued:

January 4, 2000

Serial No.:

08/809,286

App. Date

Filed:

September 15, 1995

Country Code

US

10/18/99 US (Divisional)

09/420119 02/01/01 (unconfirmed)

DE9501279

App. No.

3/21/96

Pub. Date

WO9608566

Pub. No.

Filed Pending

Status

WO EP CA

9/15/95 9/15/95 9/15/95

959311499 2203264

Pending

DE

9/16/94

P44331347

Pending



HYDROXY-TERMINATED

POLYHYDROXYALKANOATES

Inventor(s):

Asrar, et al.

U.S. Patent No.:

5,994,478

Issued:

November 30, 1999

Serial No.:

09/063,256

Filed:

April 20, 1998

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
US (Divisional)	10/1/99	09/410708	3/20/01	6204341	Issued
US (Divisional)	4/20/98	(Not known)			
US (Divisional)	8/17/00	09/640641			Allowed
wo	4/20/98	US9807967	10/29/98	WO9848028	Filed
WO	6/14/99	US9913321	12/16/99	WO9964617	Filed
EP	4/20/98	989184924	2/9/00	0977882	Pending
EP	6/14/99	US9913321			Pending
EP (C-I-P)	6/14/99	99275100	4/4/01	1088093	Pending

36a. Title:

HYDROXY-TERMINATED

POLYHYDROXYALKANOATES

Inventor(s):

Asrar, et al.

U.S. Patent No.:

6,156,852

Issued:

December 5, 2000

Serial No.:

09/096,797

Filed:

April 29, 1997

37. Title:

PRODUCTION OF POLYHYDROXYALKANOATE IN

PLANTS

Inventor(s):

Bright, et al.

U.S. Patent No.:

5,502,273; 6,175,061

Issued:

March 26, 1996; January 16, 2001

Serial No.:

08/536,123; 08/536123

Filed:

September 28, 1994; September 29, 1995

CPA Filed.

April 20, 2000

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	4/23/92	GB9200742	11/12/92	WO9219747	Filed
ΕP	4/23/92	929089209	4/6/94	0589898	Pending
\mathbf{AU}	4/23/92	1579792	1/12/95	655816	Lapsed
CA	4/23/92	2109221			Pending
GB	4/24/91	910876569			Aband.
1 D	4/23/92	50805792			Pending

38.

Title:

PRODUCTION OF POLYHYDROXYALKANOATE

Inventor(s):

Liebergesell, et al.

Serial No.:

08/178,257

Filed:

July 15, 1992

Petition to Revive Granted: February 20, 2001

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
WO	7/15/92	GB9201291	2/4/93	WO9302194	Filed
EP	7/15/92	929145936	5/4/94	0594678	Pending
AU	7/15/92	2312792	9/15/96	671595	Lapsed
CA	7/15/92	2113432			Pending
GB	7/16/91	91152454			Aband.
115	7/15/92	50266993			Pending

39. Title:

IMPROVED PRODUCTION OF

POLYHYDROXYALKANOATE USING

GRANULE-BINDING PROTEIN WHICH CONTROLS

GRANULE SIZE AND NUMBER

Inventor(s): U.S. Patent No.: Innis

tent No.: 6,022,729

Issued: Serial No.: February 8, 2000 08/702,870

Filed:

July 11, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	<u>Status</u>
US GB	7/11/95 7/18/94	08/500735 94145067		2	Pending(?) Aband.

40. Title:

PREVENTION OF GELATION OF

POLYHYDROXYALKANOATE SOLUTIONS USING

SHEAR

Inventor(s):

Serial No.:

60/188,440

Filed:

March 10, 2000

Country Code

App. Date

App. No.

Pub. Date Pub. No.

Status

WO

3/5/01

Not known

Pending

41.

Title:

POLYHYDROXYALKANOATE COATINGS

Inventor(s): U.S. Patent No.:

Asrar et al. 6,025,028

1 5 GM

71.4

Filed:

7/25/97

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	7/24/98	US9815149	2/4/9 9	WO9904948	Filed
EP	7/24/98	989359153	5/10/00	0998381	Pending

42. Title:

NUCLEATING AGENTS FOR POLYHYDROXYALKANOATES AND OTHER THERMOPLASTIC POLYESTERS AND THEIR PRODUCTION

Inventor(s): U.S. Patent No.:

Asrar et al. 5,973,100

Issued:

October 26, 1999

Serial No.: Filed:

09/122440 7/24/98

Country Code	App. Date	Pat. No.	Pub. Date	Status
WO	07/24/98	WO9905208	2/4/99	Pending
EP	07/24/98	0996671	2/4/99	

11917

SCHEDULE B to the Patent Assignment

Patents and Patent Applications That Have Not Been Maintained

1. Title:

POLYMER BLENDS AND COMPATIBILIZERS

Inventor(s):

Ballard, et al.

U.S. Patent No.:

5,478,892

Issued:

December 26, 1995

Status: Serial No.: Lapsed

Senai No Filed: 08/295,626 August 24, 1994

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WŌ	2/26/93	GB9300401	9/2/93	WO9317064	Filed
EP		939042644	12/21/94	0629219	Filed
AU	2/26/93	3572193	1/11/96	666710	Lapsed
BE	2/26/93	939042644	12/21/94	0629219	Lapsed
CA	2/26/93	2128435	9/2/93		Aband.
DE	2/26/93	939042644	12/21/94	0629219	Lapsed
FI	2/26/93	943930	•		Aband.
F R	2/26/93	939042644	12/21/94	0629219	Lapsed
GB	2/26/93	939042644	12/21/94	0629219	Lapsed
JР	2/26/93	51467093	5/18/95	OP50444995	Aband.
KR	2/26/93	70298194			Aband.
NO	2/26/93	19943157			Aband.
NZ	2/26/93	249218	1/26/96		Lapsed

2. Title:

POLYMER COMPOSITION CONTAINING

POLYHYDROXYALKANOATE AND METAL

COMPOUND

Inventor:

Hammond

U.S. Patent No.:

5,646,217

Issued:

July 8, 1997

Status:

Lapsed

Serial No.:

08/433,343

Filed:

November 4, 1993

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	11/4/93	GB9302280	5/26/94	WO9411440	Filed
EP	11/4/93	939247052	9/6/95	0669959	Aband.
AU	11/4/93	5426894	12/19/96	674361	Lapsed
CA	11/4/93	2147857	5/26/94		Aband.

JP 11/4/93 51182894 4/16/96 OP54350096 Aband. NO 11/4/93 951766 Aband.

3. Title: PROCESS OF POLYESTERS

Inventor(s): U.S. Patent No.:

Liggat, et al. 5,789,536

Issued:

August 4, 1998

Status: Serial Nos.: Lapsed 08/553,642

Filed:

June 1, 1994

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	6/1/94	GB9401181	12/8/94	WO9428047	Filed
EP	6/1/94	949170740	3/20/96	0701580	Aband.
CA	6/1/94	2163552	12/8/94		Aband.
GB	6/2/93	93114023			Aband.
JP	6/1/94	52585594	10/29/96	OP51029396	Aband.

4. Title: POLYMER COMPOSITIONS AND PROCESSES PRODUCED FROM HYDROXYALKANOIC ACID

Inventor(s):

Greer, et al.

U.S. Patent No.:

5,525,658 June 11, 1996

Issued: Status:

Lapsed

Serial Nos.:

08/374,663

Filed:

July 15, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	7/15/93	GB9301492	2/3/94	WO9402541	Filed
EP		939160859	5/10/95	0651775	
ΑU	7/15/93	4578293			Lapsed
BE	7/15/93	939160859	5/10/95	0651775	Lapsed
CA	7/15/93	2137580	2/3/94		Aband.
FI		7/15/93	950285		Aband.
FR	7/15/93	939160859	5/10/95	06 517 7 5	Lapsed
GB	7/15/93	939160859	5/10/ 9 5	0651775	Lapsed
JР	7/15/93	50425994	10/12/95	OP50926595	Aband.
ZA	7/21/93	935288			Lapsed

5. Title:

POLYESTER COMPOSITION

Inventor(s):

Liggat, et al. 5,693,389

U.S. Patent No.:

December 2, 1997

Issued:

Status 11.5, t apsed



Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	5/20/94	GB9401095	12/8/94	W09428070	Filed
EP	5/20/94	949156400	3/13/96	0700418	Aband.
ΑÜ	5/20/94	6727594	11/13/97	683466	Lapsed
CA	5/20/94	2162173	12/8/94		Aband.
FI	5/20/94	955645			Aband.
GB	5/24/93	93107126			Aband.
JP	5/20/94	50035895	11/5/96	OP51049896	Aband.
NO	5/20/94	954748			Aband.

6. Title:

PROCESSING OF POLYESTERS

Inventor(s):

Liggat, et al.

U.S. Patent No.:

5,874,040

Issued: Status: February 23, 1999

Serial Nos.:

Lapsed 08/892,311

Filed:

July 14, 1997

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	6/1/94	GB9401183	12/8/94	WO9428049	Filed
EP	6/1/94	949170765	3/20/96	0701582	Aband.
CA	6/1/94	2163553			Aband.
GB	6/2/93	93114007			Aband.
\mathfrak{P}	6/1/94	50042095	2/20/97	OP50144997	Aband.

7. Title:

PROCESS FOR PREPARING FILMS AND COATINGS

Inventor(s):

Liddell, et al.

U.S. Patent No.:

5,691,174

Issued:

November 25, 1997

Status: Serial Nos.:

Lapsed 08/530,332

Filed:

April 7, 1994

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	4/7/94	GB9400741	10/27/94	WO9424302	Filed
EP		949120273	1/31/96	0694074	Filed
AU	4/7/94	6434494	1/31/97	676035	Lapsed
BE	4/7/94	949120273	1/31/96	0694074	Lapsed
BR	4/7/94	P194064520			Aband.
CA	4/7/94	2160564	10/27/94		Aband.
DE	4/7/94	949120273	1/31/96	0694074	Lapsed
FI	4/7/94	954836			Aband.
FR	4/7/94	949120273	1/31/96	0694074	Lapsed
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IT	4/7/94	949120273	1/31/96	0694074	Lapsed
JP	4/7/94	52287394	9/24/96	OP50888196	Aband.
MX	4/13/94	942657			Aband.
NO	4/7/94	954088			Aband.
ZA	4/12/94	942515			Lapsed

8. Title:

COPOLYMER PRODUCTION

Inventor(s):

Anderson, et al.

U.S. Patent No.:

5,264,546

Issued:

November 23, 1993

Status:

Lapsed

Senal Nos.:	07/870,480			
Filed:	April 17, 1992			

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
EP		903042679	11/7/90	0396289	Lapsed
AT	4/20/90	903042679	11/7/90	0396289	Lapsed
AU	4/27/90	5452390	10/8/92	629632	Lapsed
BE	4/20/90	903042679	11/7/90	0396289	Lapsed
BR	9/2/90	PI90020600			Aband.
CA	5/1/90	2015830			Aband,
CH	4/20/90	903042679	11/7/90	0396289	Lapsed
DE	4/20/90	903042679	11/7/90	0396289	Lapsed
ES	4/20/90	903042679	11/7/90	0396289	Lapsed
FR	4/20/90	903042679	11/7/90	0396289	Aband.
GB	4/20/90	903042679	11/7/90	0396289	Lapsed
IN	4/25/90	404DEL90	5/30/98	0396289	Lapsed
ľT	4/20/90	903042679	11/7/90	0396289	Lapsed
Ъ	5/2/90	11668590	2/28/91	OP4708291	Lapsed
KR	5/1/90	61931990			Aband.
LU	4/20/90	903042679	11/7/90	0396289	Lapsed
MW	4/26/90	MW4090			Lapsed
NL	4/20/90	903042679	11/7/90	0396289	Lapsed
NZ	4/26/90	233,452			Lapsed
SE	4/20/90	903042679	11/7/90	0396289	Lapsed
TRAN	4/27/90	900038			Lapsed
TW	5/15/90	79103931	10/1/91		Lapsed
ZA	4/24/90	903108			Lapsed

9. Title: COPOLYESTERS AND METHODS OF THEIR **PRODUCTION**

Inventor(s):

Cox, et al.

U.S. Patent No.:

5,977,291

Issued:

November 2, 1999

Status

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September 21, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	9/21/95	GB9502257	3/28/96	WO9609402	Filed
EP	9/21/95	959321019	7/16/97	0783587	Aband.
CA	9/21/95	2200473		0.02241	Aband.
FI	9/21/95	971199			Aband.
GB	9/22/95	94190824	*		Aband.
JР	9/21/95	51070096	6/16/98	KOHYO50601298	Aband.
KR	9/21/95	7018681997			Aband.
MX	9/21/95	972206	12/1/97		Aband.
NO	9/21/95	19971279			Aband.

10. Title:

Inventor(s):

U.S. Patent No.: Issued:

Status: Serial No.:

Filed:

HV/HB COPOLYMER PRODUCTION

Cox, et al. 6,080,562

June 27, 2000 Issued

07/949,524 May 24, 1991

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	10/19/92	EP9100978	12/12/91	WO9118995	Filed
EP	9/13/95	919102236	4/7/93	0535012	Filed
AT	5/24/91	919102236	4/7/93	0535012	Lapsed
AU	5/24/91	7970891	9/15/94	652942	Lapsed
CA	5/24/91	2083695	11/26/91	03 2 , 1 2	Pending
DE	5/24/91	919102236	4/7/93	0535012	Issued
GB	5/24/91	919102236	4/7/93	0535012	Issued
IT	5/24/91	919102236	4/7/93	0535012	Issued
JР	5/24/91	50952491		0333012	Pending
KR	5/24/91	70296892		•	Aband.
NL	5/24/91	919102236	4/7/93	0535012	Lapsed

11. Title:

Inventor(s): U.S. Patent No.: ALIPHATIC POLYESTER COMPOSITION Lehrle, et al.

Lehrle, et al. 6,005,066

December 21, 1999

Status: Serial No.: Filed:

Issued:

Lapsed 08/768,030

08/768,030 June 13, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO FP	6/13/95 6/13/95	GB9501375 959244047	12/21/95 4 12/9 /	WO9534599	Filed
		uð.			. 200

GB 6/13/94 94117926 Aband. P 6/13/95 50180096 5/6/98 KOHYO50458398 Aband.

12. Title:

PROCESS OF RECOVERING POLYMERS OF

HYDROXYALKANOIC ACIDS

Inventor(s):

George, et al.

U.S. Patent No.:

5,952,460

Issued:

September 14, 1999

Status: Serial No.:

Lapsed 08/793,019

Filed: August 15, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
WO	8/15/95	GB9501925	2/29/96	WO9606178	Filed
EP	8/15/95	959278961	6/4/97	0776371	Aband.
CA	8/15/95	2197782			Aband.
FI	8/15/95				
GB	8/18/94	94166915			Aband. Aband.
JP	8/15/95	50784996	5/6/98	50445998	Aband.
KR	8/15/95	7010621997	5. 5. y y	30113776	Aband.
MX	8 /15/9 5	971249			•
NO	8/15/95	19970738			Aband. Aband.

13. Title:

POLYESTER COMPOSITION

Inventor(s):

Blanshard, et al.

U.S. Patent No.:

5,760,170

Issued:

June 2, 1998 Lapsed

Status: Serial No.:

08/809,316

HPC:

Filed:

September 8, 1995

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	9/8/95	GB9502150	3/14/96	WO9607697	Filed
EP	9/8/95	959313016	6/25/97	0779910	Aband.
CA	9/8/95	2199476		V. / / / / V	Aband.
FI	9/8/95	970984			Aband,
GB	9/9/94	94181740			Aband.
-1b	9/8/95	50932896			Aband.
KR	9/8/95	7015671997			Aband.
MX	9/8/9 5	971818			Aband.
NO	9/8/95	971055			Aband.

14. Title:

STRUCTURE HAVING CONTROLLED WATER RESISTANCE

Issued:

October 1, 1996

Status: Serial No.: Lapsed 08/204,263

Filed:

November 11, 1992

Country Code	App. Date	App. No.	Pub. Date	Pub. No.	Status
wo	11/11/92	GB9202078	5/27/93	WO9310308	Filed
EP	11/11/92	929229011	9/7/94	0613510	Filed
\mathbf{BE}	11/11/92	929229011	9/7/94	0613510	Lapsed
DE	11/11/92	929229011	9/7/94	0613510	Lapsed
FR	11/11/92	929229011	9/7/94	0613510	Lapsed
GB	11/11/92	929229011	9/7/94	0613510	Lapsed
· IT	11/11/92	929229011	9/7/94	0613510	Lapsed
ъ	11/11/92	50906593	2/2/95	OP50110895	Aband.

15. Title:

PROCESS FOR THE MICROBIOLOGICAL PRODUCTION OF PHA POLYMERS

Inventor(s):

Naylor, et al.

U.S. Patent No :

5,871,980

Issued:

February 16, 1999 Lapsed

Status: Serial No.:

08/894,347

Filed:

February 9, 1996

Country Code	App. Date	_ App. No.	Pub. Date	Pub. No.	Status
$\mathbf{w}_{\mathbf{O}}$	2/9/96	GB9600293	8/22/96	WO9625509	Filed
EP	2/9/96	969019322	12/3/97	0809706	Aband.
FI	8/15/97	973365		000 9700	Aband,
GB	2/17/95	95031746			
Љ	2/9/96	52474296	1/6/99	KOHYO50000899	Aband. Aband.